Exhibit #3

From: Stead, Mike

Sent: Wednesday, December 18, 2013 12:58 PM

To: Bergeron, Rodney

Cc: Toliver, Aaron; Leka, Kathy

Subject: FW: 04.0998 - 24th Ave., Harvel, IL - State Packet

Importance: High

FYI...

From: Klinger, Stephen J. [mailto:<u>stephen.klinger@nscorp.com</u>]

Sent: Wednesday, December 18, 2013 12:29 PM

To: Stead, Mike

Cc: Toliver, Aaron; Wimberly, Cayela J.; Bankieris, Gus B Subject: 04.0998 - 24th Ave., Harvel, IL - State Packet

Importance: High

Dear Mr. Stead:

Please reference the state's request from September 18, 2013 for project T13-0086 regarding the installation of flashing lights and gates with constant warning circuitry at 24th Ave. in Harvel, Montgomery County, Illinois DOT: 480031W, Milepost: D-422.78.

Attached in PDF Format are the detailed engineering, cost estimate and material list for this project. Please furnish the appropriate authorization to proceed with installation including contact information for the field representative to contact to coordinate any outside work.

Thank you,

Stephen Klinger | Highway Crossing Signal Engineer | Norfolk Southern Corp. | 1200 Peachtree St. NE, 8th Floor | Atlanta, GA 30309 | T: 404.582.6412



Detailed Estimate for Grade Crossing Warning Devices

City/State: HARVEL, IL Road: 24TH AVE
MilePost: D-422.78 DOT/AAR: 480031W

State Proj. No.: County: MONTGOMERY

S&E Proj. No.: 04.0998 File Number:

Man Days: 180

Purchases - Others

Meals and Lodging: \$24,192.00
Rental of Equipment: \$25,200.00

(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 30 Days)

Construction Supervision Vehicle: \$4,503.14

Purchases - Other Total: \$53,895.14

Material And Additives

Material Cost: \$176,858.00

Sales and Use Tax: \$8,843.00

Material Handling Freight: \$8,842.92

Material Total: \$194,543.92

Labor And Additives

Labor Cost: \$50,400.00

(6 man crew at \$1,680.00 a day for: 30 days)

Payroll Tax & Overheads: \$66,951.36

Preliminary Engineering: \$19,998.74

Construction Supervision: \$14,227.92

Labor Total: \$151,578.02

Project Cost: \$400,017.08

Scrap / Salvage Credit: \$0.00

Project Total: \$400,017.00

Estimated on: 18-Dec-13 Estimated by: bf2cc

Estimate valid for 1 year from date of estimate



Norfolk Southern Railway <u>Highway Crossing Signalization Program - Material List</u>



Do not substitute items without permission from S & E Engineering

City:	HARVEL					
Road:	24TH AVE					
Mile Post:	D-422.78					
Drawing Number:	BKDS42278					
State ProjectNumber:						
County:	MONTGOMERY					
A A R Number:	480031W					
Project Number:	04.0998					
File Number:						
New File Number:	CX-TBA					
WBS:	F-01200					
Store Number:						
Supervisor:	W.D. HAUCK					
Tax Code:						
Vendor to supply the following copies after pricing: 1 Set - Material Management with original Invoice 2 Sets - with plans shipped in car with material 1 Set - S&EGen. Supt. Construction w/copy of invoice						

P.O.Number: Date Required: Vendor: Railroad Signal Design Store No.: Date Shipped:

			Price			Quantity	Quantity Installed Date Date Date		alled Date	Quantity Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	Item Description	Shipped	Quan.	Quan.	Quan.	(Credit)	Instructions
3	670-360693-4	EA	\$5.55		AAR/DOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY S'TRAN.						
1	165-006505-4	EA	\$1,075.23		AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE						
6	670-119241-4	EA	\$25.01		ARRESTOR, LIGHTNING HEAVY DUTY CLEAR VIEW SAFETRAN 022585-1X						
29	105-002620-4	EA	\$302.42	\$8,770.18	BATTERY, NICAD 340AH, MODEL SPL340						
1	670-503047-4	EA	\$183.15		BELL, CROSSING ELECTRONIC GENERL SIGNAL, EB-3-360-5 CR 02-044350						
2	670-980689-4	EA	\$75.48	\$150.96	BRACKET HIGH WIND, (RIGID 3'), WIG- 191036, WALRUS TUSK TYPE						
2	670-561375-4	EA	\$1,208.79		BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 38' AND LESS						
2	670-356949-4	EA	\$94.05		CABLE, 10' GENERATOR HOOK UP, SERRMI P/N 40524. FEMALE CONNECTOR						
500	465-939422-4	LF	\$2.93		CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL						
6500	465-292862-4	LF	\$1.36	\$8,840.00	CABLE, UG 2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR						
500	465-292929-4	LF	\$4.13		CABLE, UG 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL						
2850	465-292945-4	LF	\$1.63	\$4,645.50	CABLE, UG 5-14, S-54 OKONITE 206-14-6885						
3200	465-791835-4	FT	\$3.55		CABLE, UG AC ENTRANCE 3C#6-7X OKONITE FMPF-L 094-078 TR W/G 1 X 8 7X W010 BRZ TAPE 600V PRODUCT CODE 206-11-6070						
1	670-128745-4	EA	\$162.75		CHOKE, BATTERY SAFETRAN NO 8A065A FOR GRADE CROSSING PREDICTOR						
120	165-544477-4	FT	\$3.22		CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4						

Store No.: P.O.Number: Date Required: Date Shipped: Vendor: Railroad Signal Design

							Qua	ntity Insta	alled	Quantity	
			Price			Quantity	Date	Ďate	Date	Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	Item Description	Shipped	Quan.	Quan.	Quan.	(Credit)	Instructions
19	670-664917-4	EA	\$90.11		CONNECTOR KIT, WELDED FAR RAIL, CONSISTING OF RUBBER HOSE PROPERLY DRILLED, BONDSTRAND, 1 SPLICING SLEEVE, 1 REDUCING SLEEVE, 3 CLAMPS, 1 TRACK CLIP, 1 WEB WELDED TRACK CONNECTOR, 1 WELD METAL, SAFETRAN 111359-2X						
19	670-632520-4	EA	\$77.63		CONNECTOR KIT, WELDED NEAR RAIL, CONSISTING OF, RUBBER HOSE PROPERLY DRILLED, BONDSTRAND, SPLICING SLEEVE, 1 REDUCING SLEEVE, 5 CLAMPS, 1 TRACK CLIP, 1 WEB WELDED TRACK CONNECTOR, 1 WELD METAL, SAFETRAN 111359-1X						
2	670-793404-4	EA	\$1,159.00	\$2,318.00	COUNTERWEIGHT PKAGE, 17-24'GATE S'TRAN S- MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS						
1	670-393315-4	EA	\$808.29	\$808.29	COUPLER, BIDIRECTIONAL SIMULATION S'TRAN# 62664-525						
4	670-760012-4	EA	\$44.32	\$177.28	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. ====TO COVER 2 LAMPS====						
1	670-986650-4	EA	\$354.27	\$354.27	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER						
1	670-000004-4	EA	\$700.00	\$700.00	FCC LICENSE FOR MONITOR/RADIO						
2	670-000003-4	EA	\$255.85		FILL/STONE #57, QUANITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
1	670-012732-4	EA	\$359.64	\$359.64	FILTER, ELECTRO CODE 211HZ REJECTION PART# TF-211						
2	670-015231-4	EA	\$599.40	\$1,198.80	FOUNDATION, DIXIE,S-2 GATE 2'6"X2'6"X5'6" ASSEMBLED						
2	670-005377-4	EA	\$338.00	\$676.00	GATE ARM, (FOR LEDS) ALUMINUM, 17-24 FT, ARM ASSEMBLY, INCLUDES GATE GUARD FOR GATE LIGHT CABLE. HIGH INTENSITY VERTICAL STRIPES.						
1	670-696894-4	EA	\$34,574.48		GCP4000 - 2 TRK (2TC) - REDUNDANT - 40/40 AMP WIRED RACK EQUIP. FOR 6X8 XING SHELTER, (INCL. 2 TRK CHASSIS A80465, 4 TRK MODS. A80418, 2-SSCC A80405, 2 CPU A80403, 1 SEAR A80410, 1 DISPLAY A80407, , 2-40 AMP CHARGERS) IPN: 003131-4X						
1	670-687087-4	EA	\$21,483.70		GCP4000 - 2 TRK (5TC) - NON-REDUNDANT - 40 AMP WIRED RACK EQUIP. FOR 6X8 REMOTE SHELTER, (INCL. 5 TRK CHASSIS A80440, 2 TRK MODS. A80418, 0 SSCC, 1 CPU A80403, NO SEAR, 1 DISPLAY A80407, 1-40 AMP CHARGER) IPN: 003131- 3X						

P.O.Number: Date Required: Vendor: Railroad Signal Design Store No.: Date Shipped:

			Price			Quantity	Date	Quantity Installed Date Date Date		Quantity Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	ce Item Description Shipped Quan. Quan. Quan.		(Credit)	Instructions			
3	670-396564-4	EA	\$3,430.68	\$10,292.04	GCP4000 - MODULE - TRACK MODULE - IPN: A80418						
1	670-011479-4	EA	\$956.00	\$956.00	GUARD, SIGNAL ARMCO LINER PLATE CIRCULAR 8'DIA., 10 GA.GALVANIZD STEEL WITH (6) 5'9" GALVANIZED						
2	670-477991-4	EA	\$410.00	\$820.00	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS,200'#4WIRE,12 4 WIRE ONE-SHOTS. ERICO SBK206						
1	670-123298-4	EA	\$345.97		KIT, HARDWARE SUPPLIES REQUIRED X'ING P'CKAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS,P'GUM PAINT,SLEEVES,TAGS,GLUE, 100 EA WHITE TAGS,)NE CAN BLUE MARKING PAINT ETC						
2	670-092155-4	EA	\$160.00	\$320.00	LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) REC #: 9298-1120						
2	670-005058-4	EA	\$1,786.08		AMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003-487XNS)						
6	670-440826-4	EA	\$1.90	\$11.40	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662						
4	255-590880-4	EA	\$17.52	\$70.08	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						
2	670-637778-4	EA	\$1,325.00	\$2,650.00	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. S'TRAN P# 070519-11AX.						
2	670-875060-4	EA	\$2,596.32	\$5,192.64	MECHANISM, GATE MODEL S-60, WITH DEFROSTER, WITHOUT MINI TRACKSIDE SENSOR S'TRAN # 0740007-X002A3						
1	670-000001-4	EA	\$726.23	\$726.23	MISC. EXPENSE, MATERAIL/FILL						
1	670-000007-4	EA	\$307.02	\$307.02	MISC. EXPENSE, TRACK WORK (I.E. INS JTS, RODS, ETC.)						
2	000-000000-4	EA	\$5,000.00	\$10,000.00	MISC. EXPENSE, UNDERGROUND BORING						
4	670-001347-4	EA	\$59.67		PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR						
11	670-004475-4	EA	\$336.93		PACKAGE, KIT FOR ADDITIONAL TRACK CONNECTION CROSSING LOCATION. INCLUDES ALL EQUIPMENT, WIRING AND SHOP LABOR. (1 PER WIRE PAIR) IPN: 051000-NSX-0005						
1	255-646807-4	EA	\$31.19		PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX						

P.O.Number: Date Required: Vendor: Railroad Signal Design Store No.: Date Shipped:

			_ ,				Quantity Installed			Quantity	
Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Date Quan.	Date Quan.	Date Quan.	Returned (Credit)	Special Instructions
1	670-514605-4	EA	\$11.11	\$11.11	PINNACLE, W-C SECT 1-11, 4"& 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X						
3	670-259211-4	EA	\$47.25	\$141.75	PLUG BOARD KIT, TYPE B-1 & VOLTAGE TEST TERMINAL, SAFETRAN 420000-75X						
2	165-902002-4	EA	\$303.43	\$606.86	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL						
8	465-002899-4	EA	\$22.24	\$177.92	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES						
3	670-742096-4	EA	\$43.68	\$131.04	RELAY INTERFACE PROBE, ULTRATECH PN 16031-00						
3	670-456936-4	EA	\$145.69	\$437.07	RELAY RACK, SWING, FARADAY SHELTER FOR ONE RELAY, SSFETRAN P/N T15331						
3	670-707995-4	EA	\$510.12	\$1,530.36	RELAY, TYPE B1, NEV LINE, 900 OHMS, 008 AMPERES GRS A62-308 OR SAFETRAN @400003						
4	435-805560-4	EA	\$2.78	\$11.12	SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER						
1	670-113448-4	EA	\$910.23	\$910.23	SEARIII, (VHFC w/ANTENNA) - VHF COMMUNICATOR, SAFETRAN P/N A80276, 1/ PER CROSSING						
2	670-749325-4	EA	\$237.18	\$474.36	SHELF, FOLDING, FOR LAPTOP USE IN FARADAY 6X8 SHELTER, SAFETRAN 052852-128X						
2	670-755523-4	EA	\$9,744.79	\$19,489.58	SHELTER, 6'X8' ALUMN FARADAY W/1EA EQUIPMENT RACK, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN RECEPTICAL, BREAKER BOX GFI OUTLET FOR LAPTOP SHELF SAFETRAN 058400-68-85						
2	670-471572-4	EA	\$3.48		SHIELD, GROUND SERRMI P/N 61278 FOR GROUNDING A RH 4 POST TERMINAL BLOCK DIRECTLY TO FARADAY SHIELD						
2	670-472200-4	EA	\$3.48	\$6.96	SHIELD, GROUND SERRMI PART NO. 61278 FOR GROUNDING A LH 4 POST TERMINAL BLOCK DIRECTLY TO FARADAY SHIELD						
2	670-586967-4	EA	\$42.98	\$85.96	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT						
4	670-652773-4	EA	\$460.98	\$1,843.92	SHUNT, MULTI-FREQ. #62775-1543 SAFETRAN NARROW BAND						
6	670-688850-4	EA	\$369.89	\$2,219.34	SHUNT, MULTI-FREQ. #62775-3497 SAFETRAN NARROW BAND						
2	670-393331-4	EA	\$37.43		SIGN CROSSING MALFUNCTION ASSEMBLY FOR 4" AND 5" MAST, SAFETRAN #T17215						

Location: HARVEL IL S&E Proj. No.: 04.0998 AFE No.: F-01200 Drawing No.: BKDS42278 P.O.Number: Date Required: Vendor: Railroad Signal Design Store No.: Date Shipped:

							Quantity Installed		alled	Quantity	
			Price			Quantity	Date	Date Date Date		Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	Item Description	Shipped	Quan.	Quan.	Quan.	(Credit)	Instructions
2	670-554843-4	EA	\$77.05	\$154.10	SIGN, 2 TRACK SIGN, HIGH INTENSITY, SAFETRAN #035207- 2HX						
2	670-016346-4	EA	\$143.23	\$286.46	SIGN, X-BUCK, HI-INTENSIVE REFLECTIVE FRT. & BACK FOR ALL STATES, SAFETRAN# 035200-91X						
1	670-330382-4	RL	\$18.06	\$18.06	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"						
15	670-478560-4	EA	\$20.56	\$308.40	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR						
3	610-065626-4	EA	\$18.18	\$54.54	ULTRA-TECH 15206-01 CONNECTIVITY BLOCK FOR GRS B1 RELAY						
3	670-007238-4	EA	\$117.04	\$351.12	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-						
2	450-986008-4	EA	\$30.45	\$60.90	0 WRENCH, TEST POST TYPE B DWG 55393-3, GR.1						

Total Material: \$176,858.40

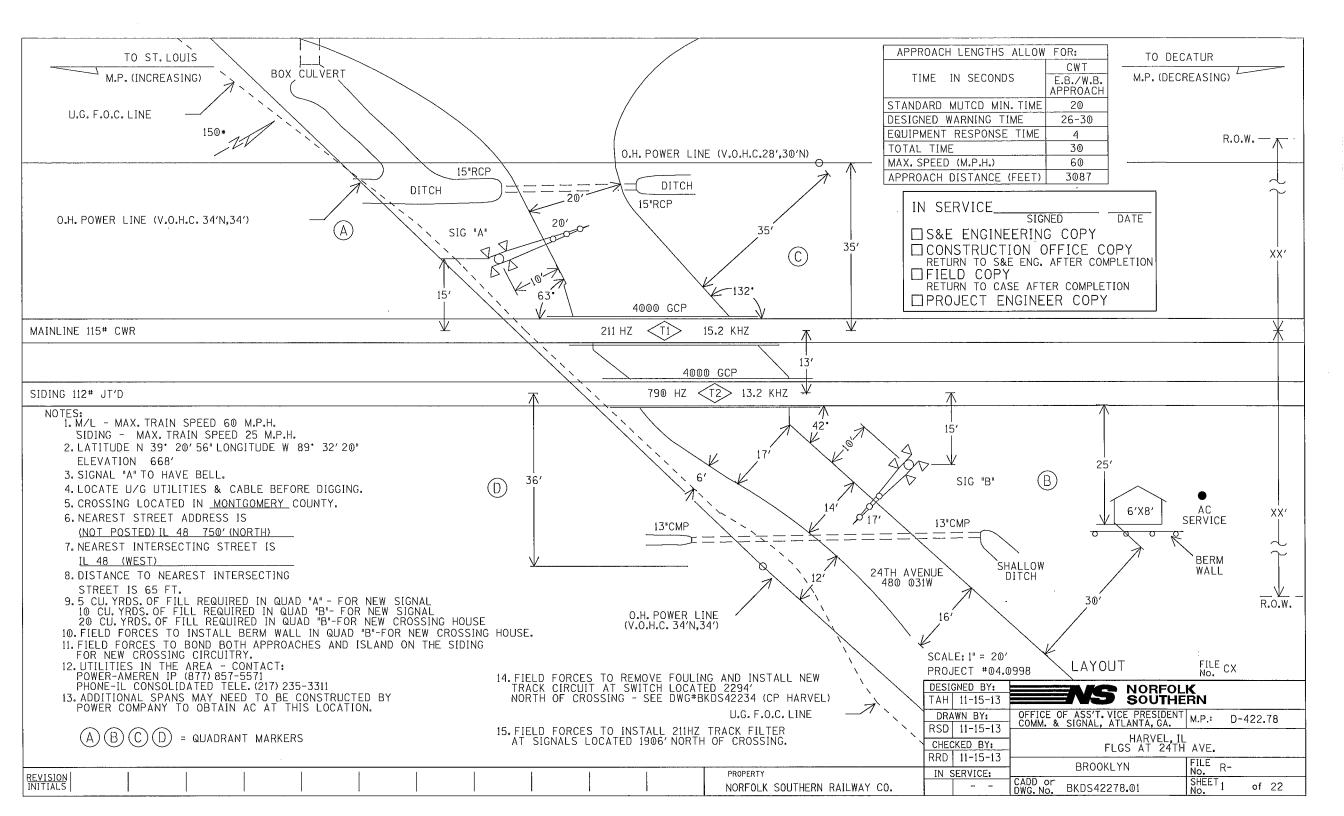
APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

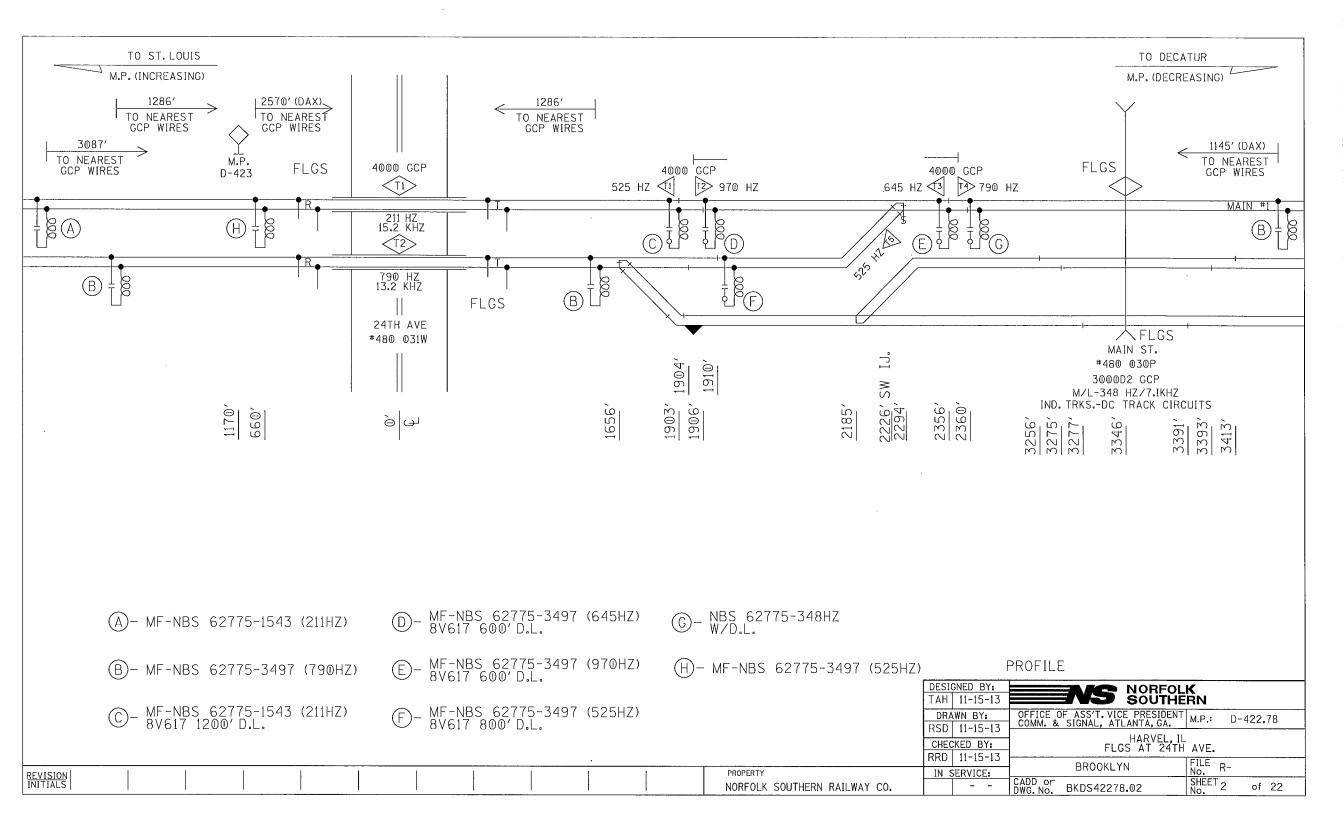
SH. NO.	CONTENTS
NX1	INDEX SHEET
1	LAYOUT
2	PROFILE
3	CABLE PLAN
4	LOAD CENTER
5	B12 & B16 CHARGERS & BATTERIES
6	4000 GCP 2-TK CHASSIS & MODULE LAYOUT
7	4000 GCP PROGRAMMING SETUP
8	4000 GCP PROGRAMMING SETUP
9	CONNECTORS FOR TRACK MODULES
10	CPU MODULE, SEAR III & VHF HOOK-UPS
11	SEAR III PROGRAMMING SETUP
12	SSCC#1 MODULE HOOK-UP
13	SSCC#2 MODULE HOOK-UP
14	SIGNAL "A" S60 GATE & FLASHER CIRCUITS
15	SIGNAL "B" S60 GATE & FLASHER CIRCUITS
16	BACKBOARD 1A & 1B
17	REAR BACKBOARD 1A & 1B
18	FARADAY SHIELD 1A & 1B
19	FARADAY SHIELD 1C
20	HOUSE SIDE C LAYOUT & RACK PLACEMENT
21	HOUSE SIDE A LAYOUT
22	HOUSE SIDE B LAYOUT & TOP VIEW

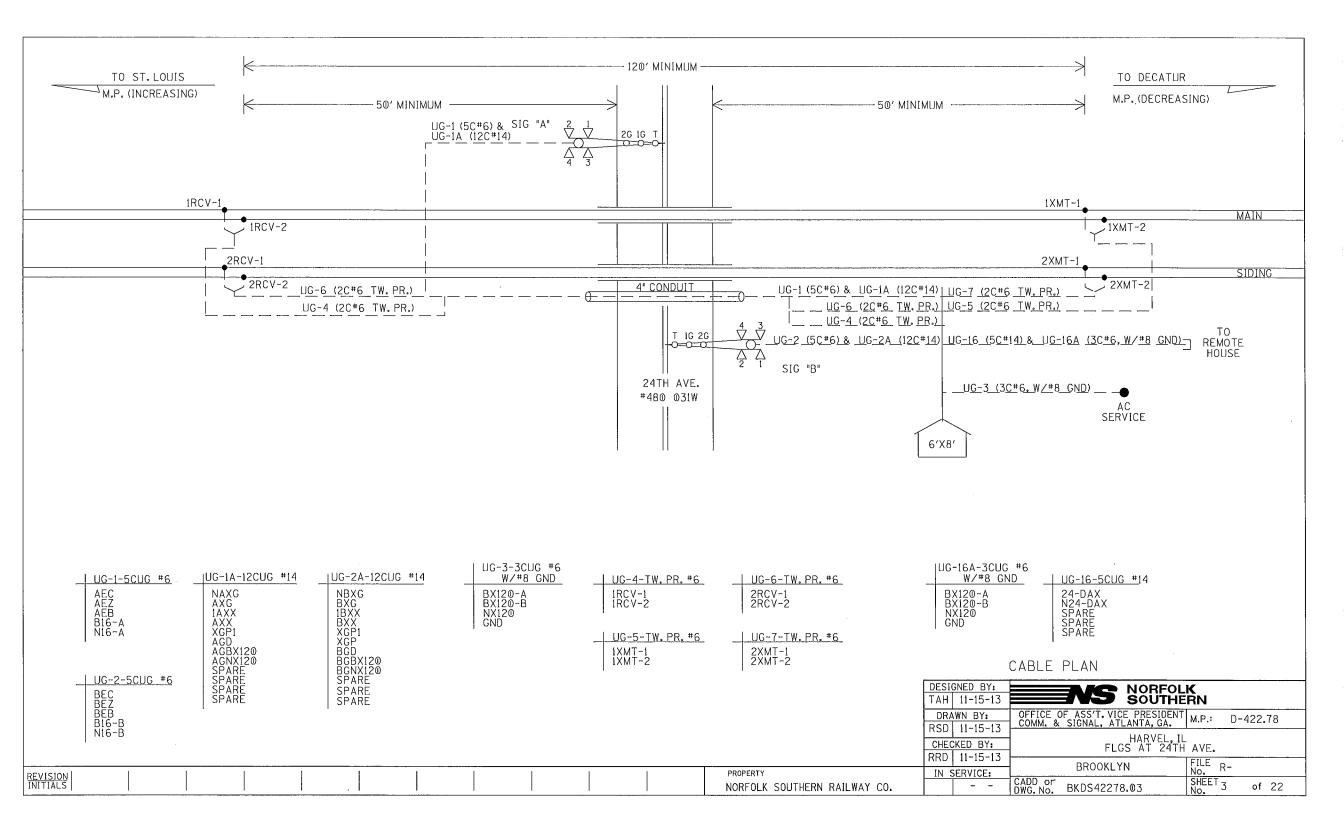
INDEX SHEET

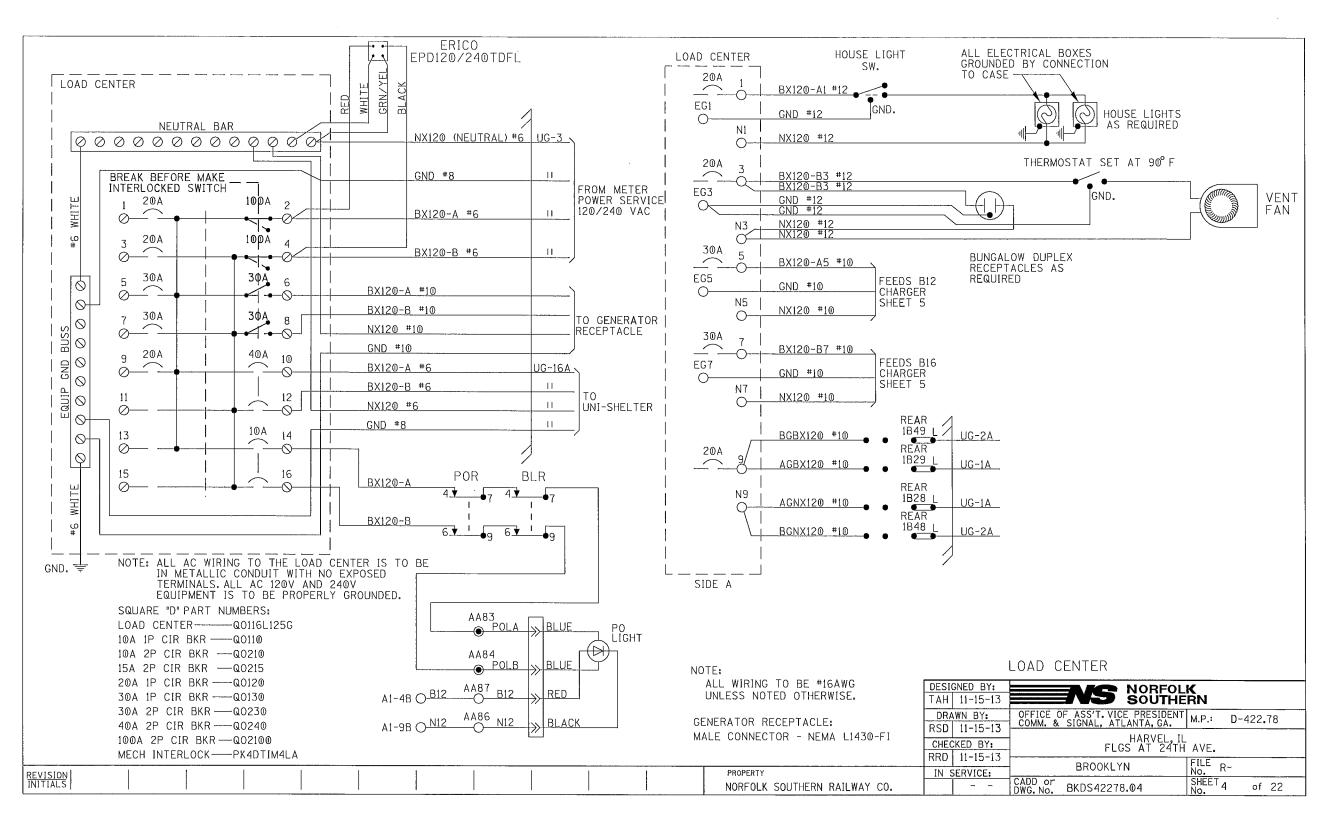
DESIGNED BY:	NORFOLK
TAH 11-15-13	NS NORFOLK SOUTHERN
DRAWN BY:	OFFICE OF ASS'T. VICE PRESIDENT M.P.: D-422.78
RSD 11-15-13	
CHECKED BY:	HARVEL, IL FLGS AT 24TH AVE.
 IN SERVICE:	BROOKLYN FILE R-
	CADD or DWG, No. BKDS42278.NX1 SHEET 1 of 1

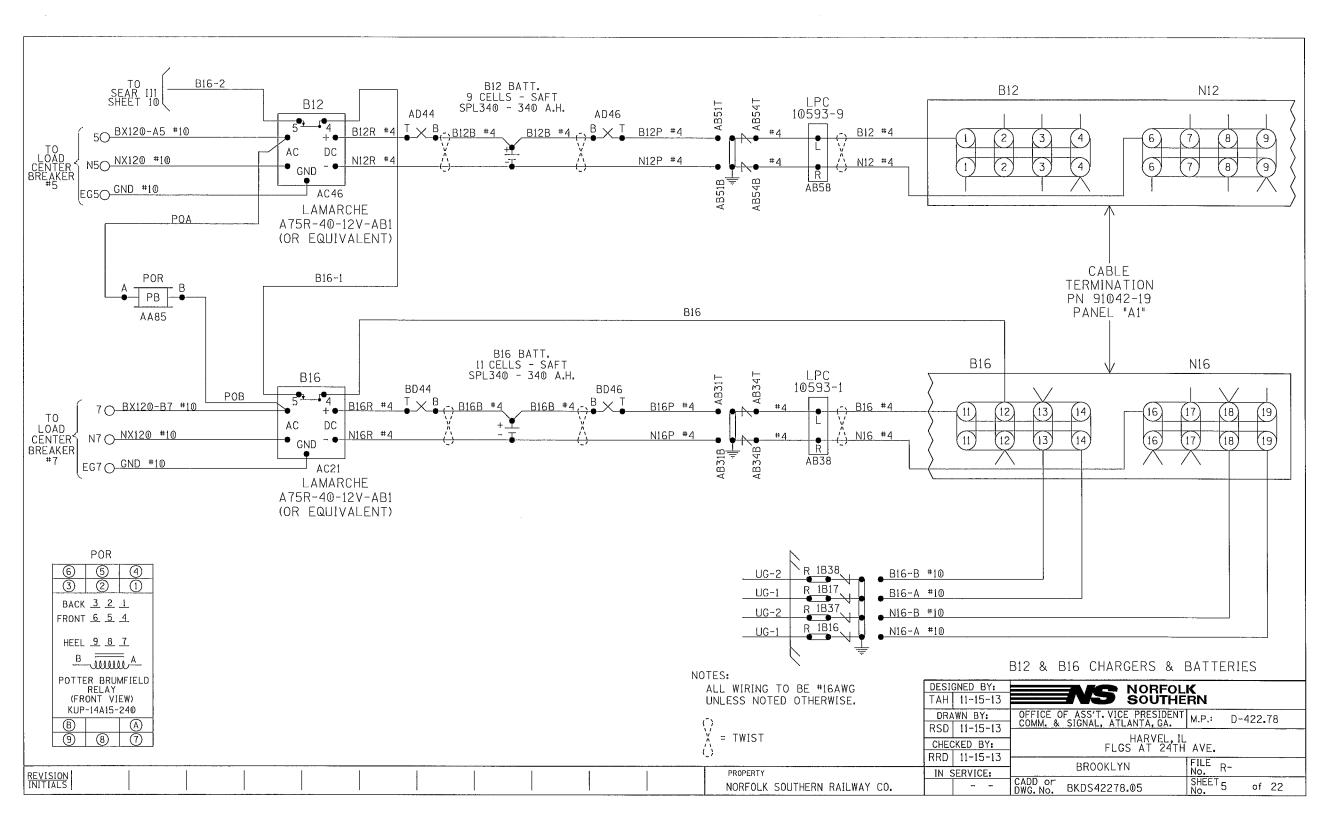
NORFOLK SOUTHERN RAILWAY CO.

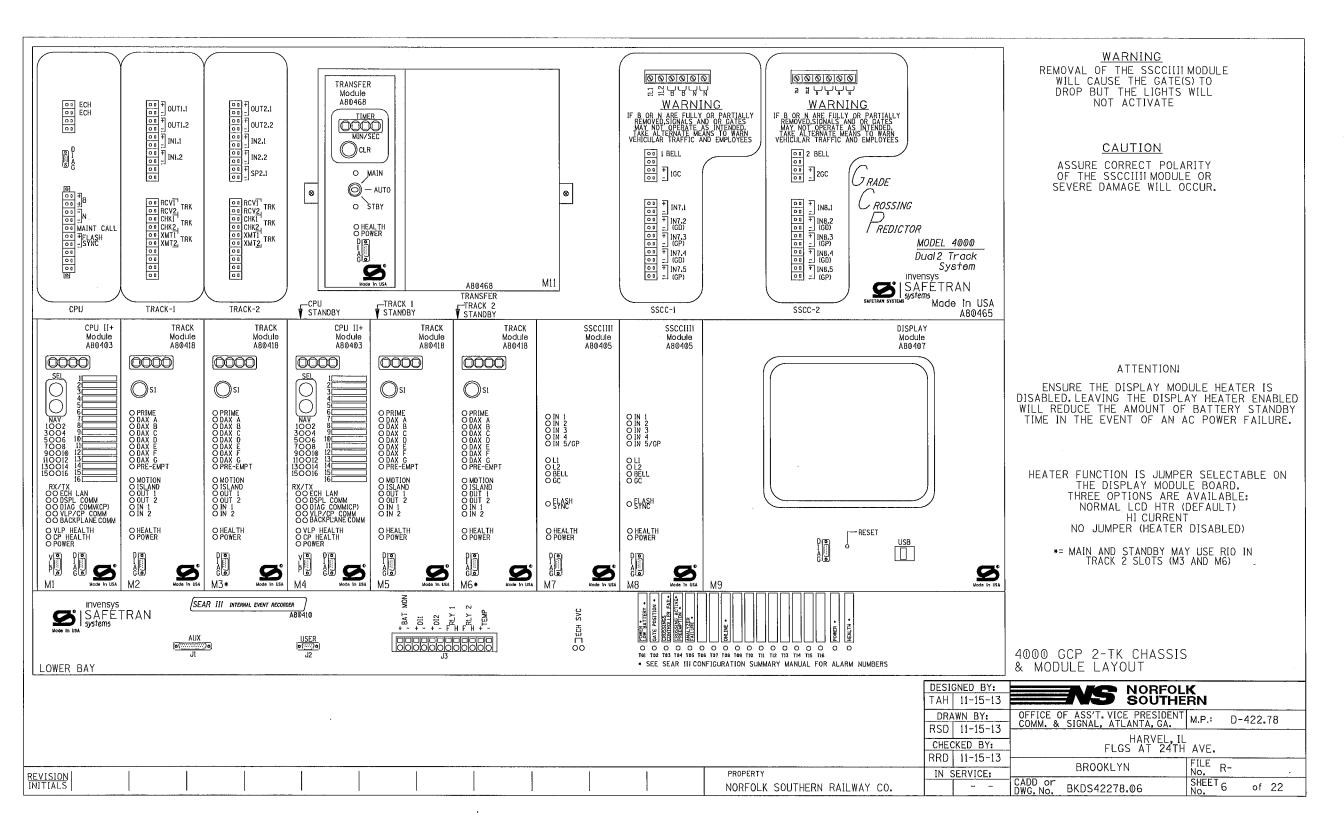












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Program Report
                                                                                       PREDICTORS: track 2
Track 2:Prime Used = Yes
Track 2:Dax A Used = No
                                                                                                                                                                                               GCP: track 2 enhanced det
                                                                                                                                                                                              GCP: track 2 enhanced def
Track 2: Inbound PS Sensitivity = Off
Track 2: Speed Limiting Used = Yes
Track 2: Outbound False Act LvI = Normal
Track 2: Outbound PS Timer = 20 sec
Track 2: Trailing Switch Logic = Off
Track 2: Post Joint Detn Time = 15 sec
Track 2: Adv Appr Predn = No
Track 2: Cancel Pickup Delay = This Isl
Location and SIN
                                                                                       Track 2: Dax B Used = No
Track 2: Dax C Used = No
Track 2: Dax D Used = No
Track 2: Dax E Used = No
Track 2: Dax E Used = No
Track 2: Dax F Used = No
DOT Number: 480031W
Milepost Number: D-422.78
Site Name: 24TH AVE
SIN: 755053403016
                                                                                        Track 2 : Dax G Used = No
MCF and Template Selection
                                                                                       GCP: track 1
Track 1: GCP Freq Category = Standard
Track 1: GCP Frequency = 211 Hz
                                                                                                                                                                                               GCP: track 2 prime
Track 2: Prime Warning Time = 30 sec
MCF Name: GCP-T6X-02-1.mcf
                                                                                                                                                                                               Track 2: Prime Offset Distance = 0 ft
Track 2: Switch MS EZ Level = 10
MCF Revision: 021
                                                                                       Track 1: Approach Distance = 3087 ft
Track 1: Uni/Bi/Sim-Bidirn! = Bidirn!
Track 1: CCP Transmit Level = High
MCFCRC: 6076E435
                                                                                                                                                                                                Track 2 : Prime MS/GCP Mode = Pred
                                                                                                                                                                                               Track 2 : Prime Pickup Delay = 15 sec
Track 2 : Prime UAX = Not Used
                                                                                       Track 1: Island Connection = Isli
Track 1: Island Distance = 134 ft
Track 1: Computed Distance = 9999 ft
Track 1: Linearization Steps = 100
Template = 1A:6 Trk Bi
Check Numbers
                                                                                                                                                                                               GCP: track 2 pos start
                                                                                                                                                                                                Track 2 : Positive Start = Off
Office Check No. (DT 4.6.0): 1C3D5D47
                                                                                                                                                                                               Track 2: Sudden Shnt Det Used = No
Track 2: Low EZ Detection Used = No
Office Check Number: 1C3D5D47
                                                                                        GCP: track 1 enhanced det Track 1: Inbound PS Sensitivity = Off
Config. Check Number: 652A7312 (Based on MCF Revision 021)
                                                                                       Track 1: Speed Limiting Used = Yes
Track 1: Outbound False Act Lvl= Normal
Track 1: Outbound PS Timer = 20 sec
Track 1: Trailing Switch Logic = Off
                                                                                                                                                                                              GCP: track 2 MS Control
Track 2: MS/GCP CtrlIP Used = No
Track 2: MS Sensitivity Level = 0
Track 2: Compensation Level = 1300
Track 2: Warn Time-Ballast Comp = High
Track 2: Low EX Adjustment = 39
Track 2: Bidirn Dax Passthru = No
Track 2: False Act on Train Stop = No
Program
                                                                                       Track 1: Post Joint Detn Time = 15 sec
Track 1: Adv Appr Predn = No
Track 1: Cancel Pickup Delay = This Isl
BASIC: module configuration
Track 1 Slot = Track
Track 2/RIO 1 Slot = Track
                                                                                      GCP: track 1 prime
Track 1: Prime Warning Time = 30 sec
Track 1: Prime Offset Distance = 0 ft
Track 1: Switch MS EZ Level = 65
Track 1: Prime MS/GCP Mode = Pred
Track 1: Prime Pickup Delay = 15 sec
Track 3 Slot = Not Used
Track 4 Slot = Not Used
                                                                                                                                                                                               Track 2 :EX Limiting Used = Yes
Track 2 :EX Correction Used = Yes
Track 5/RIO 2 Slot = Not Used
Track 6/RIO 3 Slot = Not Used
                                                                                                                                                                                               ISLAND: track 1
SSCC-1 Slot = SSCC3i
SSCC-2 Slot = SSCC3i
SEAR Used = Yes
                                                                                                                                                                                                Track 1: IslFrequency = 15.2 kHz
                                                                                                                                                                                               Track 1: Pickup Delay (2s +) = 0 sec
Track 1: Isl Enable IP Used = No
                                                                                       Track 1: Prime UAX = IP
Track 1: Prime UAX Pickup = 25 sec
BASIC: MS/GCP operation
Track 1: MS/GCP Operation = Yes
Track 2: MS/GCP Operation = Yes
                                                                                                                                                                                               ISLAND: track 2
                                                                                        GCP: track 1 pos start
                                                                                                                                                                                               Track 2: IslFrequency = 13.2 kHz
Track 2: Pickup Delay (2s +) = 0 sec
Track 2: IslEnable IP Used = No
                                                                                       Track 1: Positive Start = Off
Track 1: Sudden Shnt Det Used = No
Track 1: Low EZ Detection Used = No
BASIC: island operation
Track 1: Island Used = Internal
                                                                                                                                                                                                AND: track Anding
Track 2 : Island Used = Internal
                                                                                        GCP: track 1 MS Control
Track 1: MS/GCP CtrlIP Used = No
                                                                                                                                                                                               AND 1 XR Used = Yes
                                                                                                                                                                                                AND 2 Used = No
BASIC: preemption
                                                                                        Track 1:MS Sensitivity Level= 0
                                                                                                                                                                                               AND 3 Used = No
                                                                                       Track 1: Ms selistivity Level = 1300
Track 1: Warn Time-Ballast Comp = High
Track 1: Low EX Adjustment = 39
Track 1: Bidirn Dax Passthru = No
Track 1: False Act on Train Stop = No
Preempt Logic = No
                                                                                                                                                                                               AND 4 Used = No
                                                                                                                                                                                               AND 5 Used = No
BASIC: radio Dax links
                                                                                                                                                                                              AND 6 Used = No
AND 7 Used = No
Radio DAX link A Used = No
Radio DAX link B Used = No
                                                                                                                                                                                               AND 8 Used = No
                                                                                        Track 1:EX Limiting Used = Yes
Track 1:EZ Correction Used = Yes
BASIC: Vital Comms links
                                                                                                                                                                                                AND: AND 1 XR
VitalComms link 1 Used = No
                                                                                                                                                                                              AND 1 XR Track 1 = Prime
AND 1 XR Track 2 = Prime
AND 1 Enable Used = Yes
                                                                                      GCP: track 2
Track 2:GCP Freq Category = Standard
Track 2:GCP Frequency = 790 Hz
Track 2:Approach Distance = 1286 ft
Track 2:Uni/Bi/Sim-Bidirnl = Bidirnl
Track 2:GCP Transmit Level = Medium
Track 2:Island Connection = Isl2
Vital Comms link 2 Used = No
PREDICTORS: track 1
                                                                                                                                                                                                And 1 Enable Pickup = 5 sec
 Track 1: Prime Used = Yes
                                                                                                                                                                                                AND 1 Enable Drop = 0 sec
 Track 1: Dax A Used = No
                                                                                                                                                                                               AND 1 Wrap Used = No
Track 1: Dax B Used = No
Track 1: Dax C Used = No
Track 1: Dax D Used = No
                                                                                                                                                                                               ADVANCED: MS restart
MS/GCP Restart Used = No
                                                                                       Track 2: Island Distance = 132 ft
Track 2: Computed Distance = 9999 ft
Track 1: Dax E Used = No
Track 1: Dax F Used = No
Track 1: Dax G Used = No
                                                                                        Track 2 : Linearization Steps = 100
```

4000 GCP PROGRAMMING SETUP

		4000 601	INUGNA	MINITING	SEI	UF	
DESI	GNED BY:		NO	RFOLK			
TAH	11-15-13		YS NO		N		
	WN BY:	OFFICE OF A	SS'T.VICE PRE NAL, ATLANTA	SIDENT	I.P.:	D-422.	 .78
RSD	11-15-13	COMMINI & STO		· ·		-	<u> </u>
CHE(CKED BY:		HAR FLGS AT	24TH /	VE.		
	SERVICE:	8	BROOKLYN		ILE R	_	
111		CADD or DWG. No. BKI	DS42278.07	S	HEET 7	of	22

REVISION INITIALS NORFOLK SOUTHERN RAILWAY CO.

ADVANCED: out of service 00S Control = Display+00S IPs 00S Timeout = Yes 00S Timeout = 1 hrs ADVANCED: out of service 2 TI 00S Control = 00S Input 1 T2 00S Control= 00S Input 1 ADVANCED: track wrap circuits Wrap LOS Timer = 5 sec Track 1 Wrap Used = No Track 2 Wrap Used = No ADVANCED: trk 1 overrides Track 1: All Predictors Override Used = No. ADVANCED: trk 2 overrides Track 2: All Predictors Override Used = No ADVANCED: OR logic OR 1 Used = No OR 2 Used = No OR 3 Used = No OR 4 Used = No ADVANCED: internalI/O 1 Pass Thrus = No Int.1 Sets = Not Used
Int.1 Set by = Not Used
Int.2 Sets = Not Used
Int.2 Set by = Not Used
Int.2 Set by = Not Used
Int.3 Sets = Not Used Int.3 Set by = Not Used Int.4 Sets = Not Used Int.4 Set by = Not Used ADVANCED: internal/0 2
Int.5 Sets = Not Used
Int.5 Set by = Not Used
Int.6 Sets = Not Used Int.6 Set by = Not Used Int.7 Sets = Not Used Int.7 Set by = Not Used Int.8 Sets = Not Used Int.8 Set by = Not Used ADVANCED: internalI/O 3 Int.9 Sets = Not Used Int.9 Set by = Not Used Int.9 Set by = Not Used Int.10 Sets = Not Used Int.10 Set by = Not Used Int.11 Sets = Not Used Int.11 Set by = Not Used Int.12 Sets = Not Used Int.12 Set by = Not Used ADVANCED: internalI/O 4 Int.13 Sets = Not Used
Int.13 Set by = Not Used
Int.14 Sets = Not Used Int.14 Set by = Not Used Int.15 Sets = Not Used Int.15 Set by = Not Used Int.16 Sets = Not Used Int.16 Set by = Not Used

ADVANCED: site options Daylight Savings = On Units = Standard Maint Call Rpt IP Used = No Emergency Activate IP = No EZ/EX Logging = Change EZ/EX Point Change = 3 Gates Used = Yes SSCC1+2 GPs Coupled = Yes Min Activation = 0 sec Rmt Activation Cancel = 2 min Bell On Gate Rising = No Mute Bell On Gate Down = No SSCCIV Controller Used = No SSCC: 1 SSCC-1 Activation = AND 1 XR SSCC-1 Gate Delay = 6 sec SSCC-1 Number of GPs = 1 SSCC-1 Number of GDs = 2 SSCC 1: Flash Rate = 40 SSCC 1:Low Battery Detection = No SSCC 1: Flash Sync = master SSCC 1: Invert Gate Output = No SSCC 1: Lamp Neutral Test = Off Aux-1 Xng CtrlUsed = No SSCC: 2
SSCC-2 Activation = AND 1 XR
SSCC-2 Gate Delay = 6 sec
SSCC-2 Number of GPs = 0
SSCC-2 Number of GDs = 0
SSCC 2 :Flash Rate = 40
SSCC 2 :Low Battery Detection = No SSCC 2: Flash Sync = slave SSCC 2: Flash Sync = slave SSCC 2: Invert Gate Output = No SSCC 2: Lamp NeutralTest = Off Aux-2 Xng CtrlUsed = No OUTPUT: assignment page 1 OUT 1.1 = Not Used OUT 1.2 = Not Used OUT 2.1 = Not Used OUT 2.2 = Not Used INPUT: assignment page 1 IN 1.1 = T1 Prime UAX IN 1.2 = Not Used IN 2.1 = Not Used IN 2.2 = Not Used IO: assignment SSCC OUT GC 1 = Gate Output 1 OUT GC 2 = Gate Output 2 IN 7.1 = Not Used IN 7.2 = GD 1.2 IN 7.3 = AND 1 XR Enable IN 7.4 = GD 1.1 ÎN 7.5 = ĞP 1.1 IN 8.1 = Out Of Service IP 1 IN 8.2 = Not Used IN 8.3 = Not Used IN 8.4 = Not Used IN 8.5 = Not Used

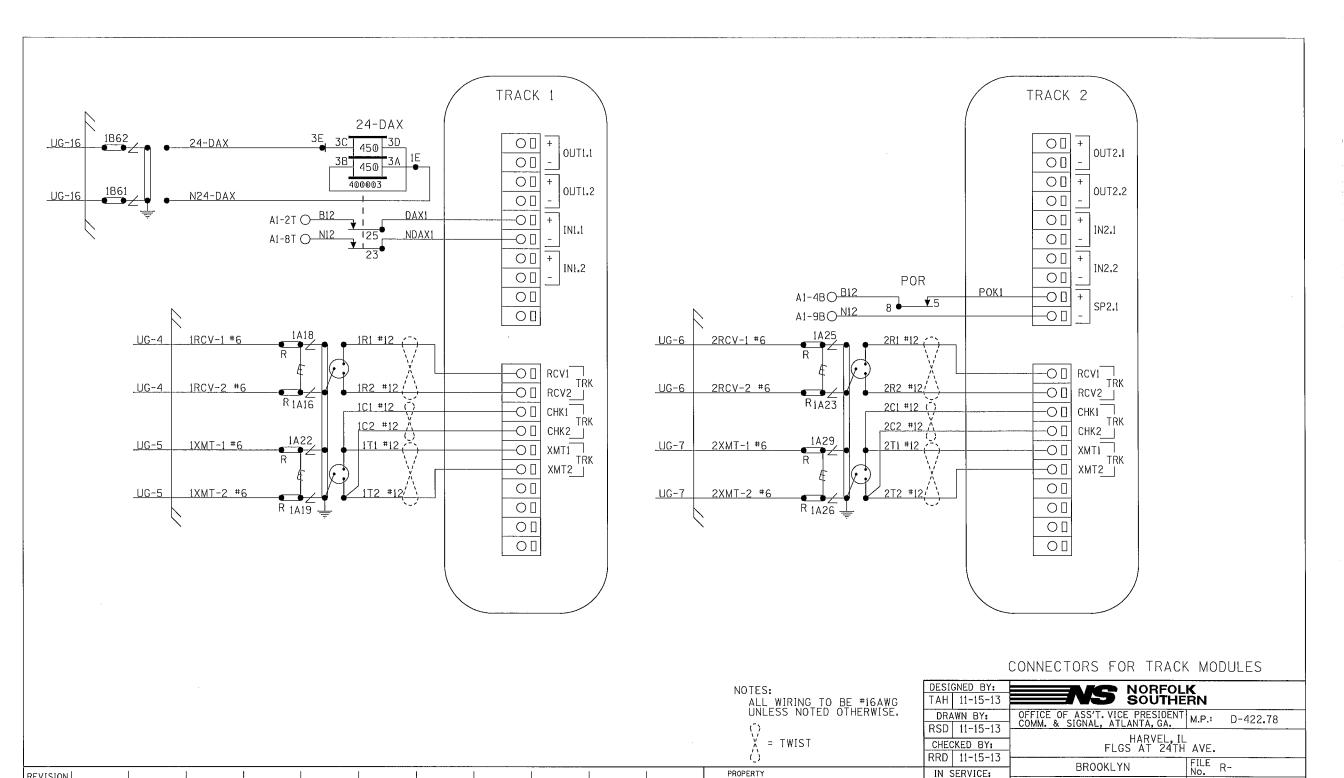
SEAR Subnode = 3 DI1 = Not Used DI 2 = Not Used Rly 1 = AC Control Rly 2 = Not Used SEAR: Inputs SP 2.1 = POK 1 SP 3.1 = Not Used SP 4.1 = Not Used SP 5.1 = Not Used SP 6.1 = Not Used SEAR: slot 1-4 inputs IN 1.2 = Not Used IN 2.1 = Not Used IN 2.2 = Not Used IN 3.1 = Not Used IN 3.2 = Not Used IN 4.1 = Not Used IN 4.2 = Not Used SEAR: inputs slot 5 IN 5.1 = Not Used IN 5.2 = Not Used SEAR: inputs slot 6 IN 6.1 = Not Used IN 6.2 = Not Used SEAR: slot 7-8 inputs IN 7.1 = Not Used IN 8.2 = Not Used IN 8.3 = Not Used IN 8.4 = Not Used IN 8.5 = Not Used SITE: programming Radio Subnode = 1 Field Password = Off Low Battery Enabled = Off Configuration Package File Filename: BKDS42278.pac

4000 GCP PROGRAMMING SETUP

		TOUR OCI INCONAMIMINO SETUI	
DESI	GNED BY:	NORFOLK	
TAH	11-15-13	NS NORFOLK SOUTHERN	
DR	AWN BY:	OFFICE OF ASS'T. VICE PRESIDENT M.P.: D-422.78	₹
RSD 11-15-13			
CHE	CKED BY:	HARVEL,IL FLGS AT 24TH AVE.	
	SERVICE:	BROOKLYN FILE No. R-	
		CADD or DWG.No. BKDS42278.08 SHEET 8 of 2	2

REVISION INITIALS

NORFOLK SOUTHERN RAILWAY CO.



NORFOLK SOUTHERN RAILWAY CO.

CADD or DWG.No.

BKDS42278.09

SHEET 9

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